

PATENT ABSTRACTS OF JAPAN

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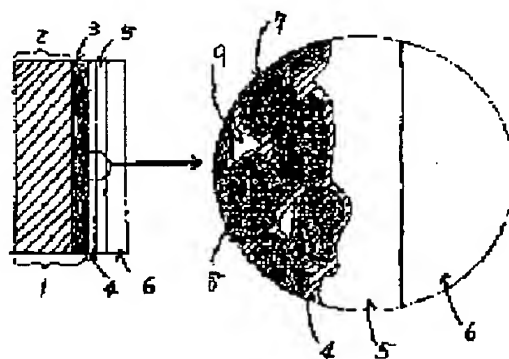
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(54) FORMATION OF JOINED BODY OF SOLID POLYMER ELECTROLYTE LAYER AND ELECTRODE FOR FUEL CELL

(57)Abstract:

PURPOSE: To provide a forming method of a joined body having low electric resistance such as a joined interface or a solid polymer electrolyte layer by which formation becomes simple by forming the first layer by heat treatment after fluorine type polymer solution is applied and dried on the side surface having electrode catalyst.

CONSTITUTION: When a joined body is formed, after fluorine type polymer solution being a polymer electrolyte is applied and dried on the surface of an electrode catalyst layer 3 of a gas diffusing electrode 1, the first layer 4 of solid polymer electrolyte is formed by heat treatment. The second layer 5 and the third layer 6 of solid polymer electrolyte are formed by applying fluorine type polymer solution on the first layer 4. An electrode catalyst layer 3 has a pore 9, and gas is supplied to an electrode catalyst particulate 8 by this pore 9. Thereby, the first electrolyte layer 4 requires a thickness in a degree that the pore 9 is not blocked and a gas flow is not hindered, and when the solution is applied on and after the second electrolyte layer 5, a phenomenon that the first layer 4 is dissolved or this pore is reduced or blocked up can be prevented by a method in the present invention.



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